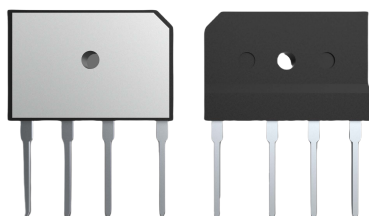
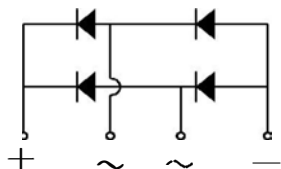


Glass Passivated Bridge Rectifiers

GBJ



Backboard with heat dissipation



Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 50A
- High Surge Current Capability
- Designed For Surface Mount Application
- Self-contained heat dissipation device

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	GBJ5010C	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	Io	50.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	500	A
I ² t rating for fusing (1ms< t < 8.3 ms)	I ² t	1037	A ² S
Maximum Forward Voltage at 25 A	VF	1.1	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 500	μA
Dielectric Strength: TeTerminals to Case, AC 1 minute	Vdis	2.5	KV
Typical Thermal Resistance (Note1)	RθJA RθJC	18.0 0.6	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

Note:1.Recommended heatsink size: 4.0*4.0*0.15cm

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Current Derating, Case

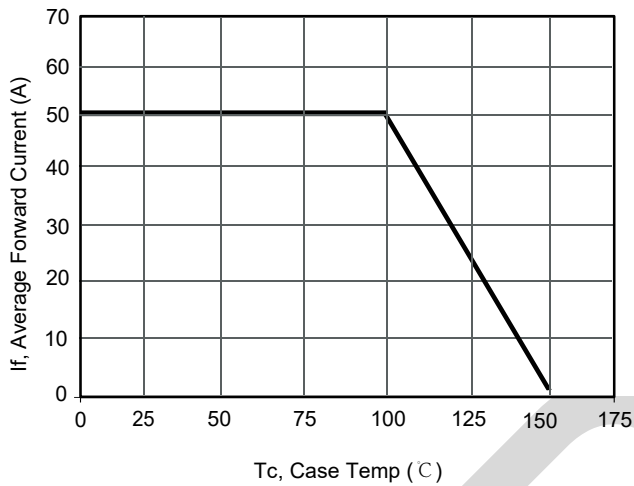


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

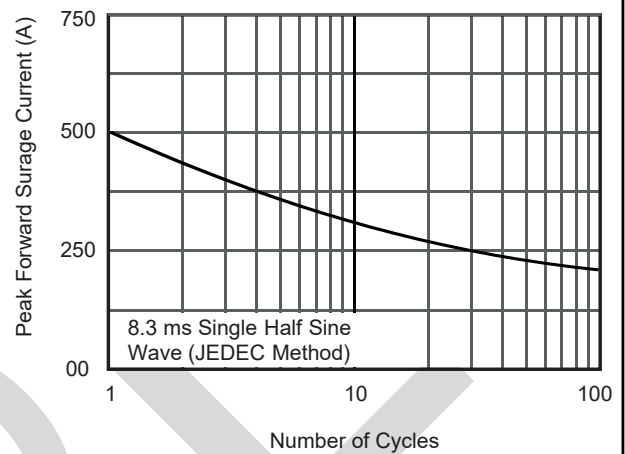


Fig.3 Typical Forward Voltage

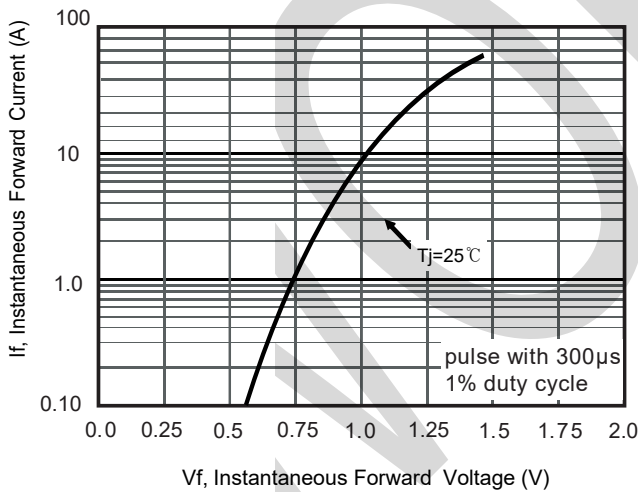
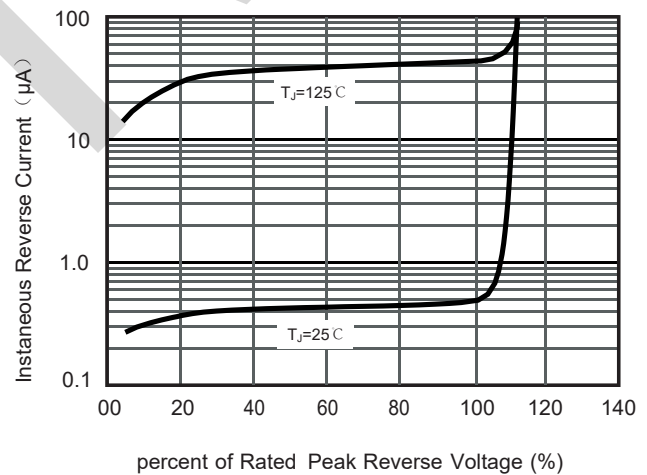
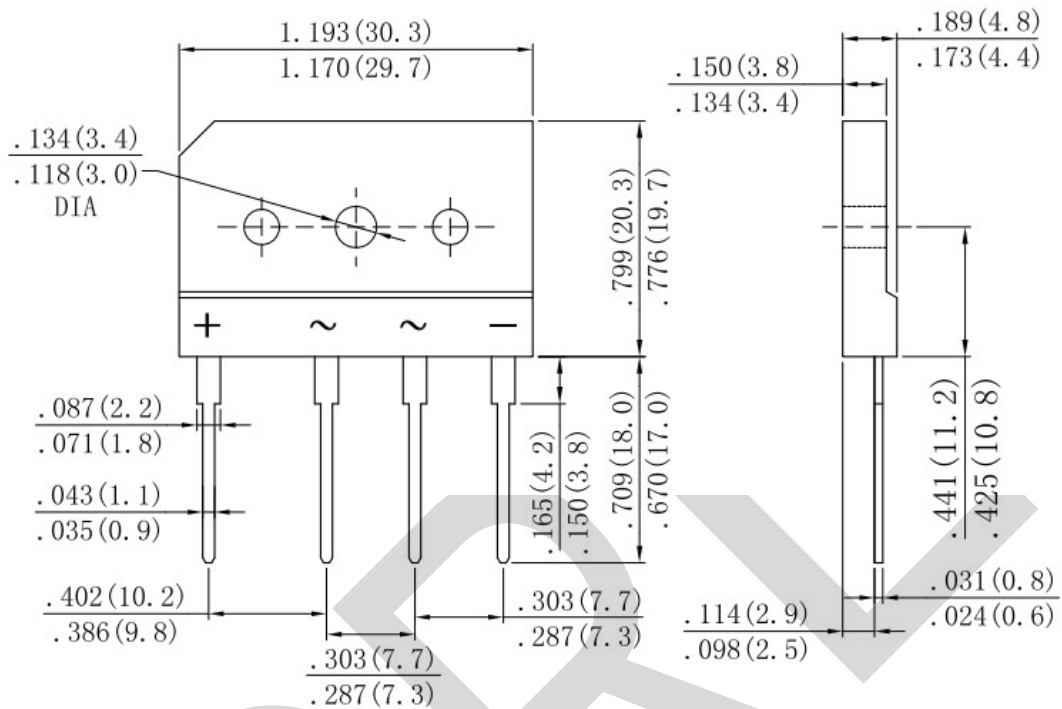


Fig.4 Typical Reverse Characteristics

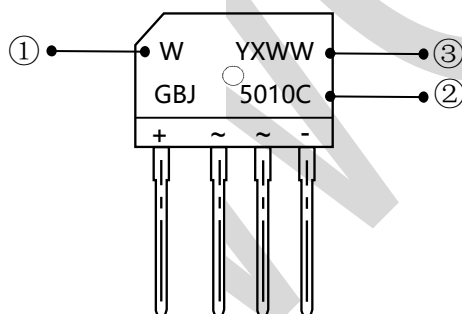


PACKAGE OUTLINE DIMENSIONS



Dimensions in inches and (millimeters)

Marking Information



- ①W : Company's trademark
- ②Product model : GBJ5010C

③PDC information:

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)